PATENT CLAIMS

1. Film feed mechanism in a motion picture camera with at least one transport grip which has a transport grip clip and at least one transport grip tip which through the kinematics of the transport grip projects into the perforation of a motion picture film which is to be transported at a predeterminable film transport speed, moves the motion picture film intermittently and runs through an elongated curved path which is closed per se and whose reversing points determine the stroke length of travel during the transport of the film,

characterised in that

the kinematics of the transport grip (2) can be changed in dependence on the film transport speed.

2. Film feed mechanism according to claim 1, characterised in that the kinematics of the transport grip (2) can be changed dynamically and/or statically.

3. Film feed mechanism according to claim 1 or 2, characterised in that the kinematics of the transport grip (2) can be changed by altering the relative position between the transport grip (2) and a grip drive (4, 6) which is connected for articulated movement to the transport grip (2).

4. Film feed mechanism according to claim 3, characterised in that the grip drive (4, 6) consists of a drive shaft (6) which is connected to a film transport motor and of a crank (4) which connects the drive shaft (6) to an articulated grip joint (22) of the transport grip clip (20) and that the position (A, A') of the drive shaft (6) can be changed in relation to the articulated grip joint (22).

5. Film feed mechanism according to claim 3 or 4, characterised in that as the film transport speed rises so the reversing points (G1, G2) of the articulated grip joint (22) which connects the transport grip clip (20) of the transport grip (2) to the crank (4) are moved towards each other.

6. Film feed mechanism according to at least one of the preceding claims, characterised in that the kinematics of the transport grip (2) can be changed by shifting the attachment (24) of the end of the transport grip clip (20) opposite the transport grip tip (21) on a control element (5) which controls the projection movement of the transport grip (2) and at least one locking grip (3) which projects into the film sprocket (10) at the end of a film transport step so that the locking grip (3) releases the film (1) when the transport grip (2) projects once more into the film sprocket (10).

7. Film feed mechanism according to claim 6, characterised in that the attachment (24) of the transport grip (2) on the control element (5) is moved relative to the axis (50) of the control element (5) as the film transport speed increases.

8. Film feed mechanism according to at least one of the preceding claims, characterised in that the kinematics of the transport grip (2) can be changed by means of an actuating signal sent by means of a camera control (9) to an electrically actuated control member (8) which is connected to the grip drive (4, 6), the transport grip (2) and/or the attachment (24).

9. Film feed mechanism according to claim 8, characterised in that the control member consists of a servo motor (8) connected directly or indirectly to the transport grip clip (20).

10. Film feed mechanism according to claim 8 or 9, characterised in that the camera control (9) changes the actuating signal continuously or discontinuously in dependence on the film transport speed.

11. Film feed mechanism according to at least one of the preceding claims 1 to 7, characterised in that the kinematics of the transport grip (2) can be changed by means of a mechanical control member connected to the grip drive (4, 6), the transport grip (2) and/or the attachment (24).

12. Film feed mechanism according to claim 11, characterised in that the mechanical control member consists of a centrifugal force regulator.

13. Film feed mechanism according to at least one of the preceding claims, characterised in that the at least one locking grip (3) has a locking grip lever (32) connected to an attachment (34) on the control element (5), and a locking grip clip (33) which is connected to the locking grip tip (31) of the locking grip (3).

14. Film feed mechanism according to at least one of the preceding claims, characterised in that the control element (5) consists of a control element (5) which can pivot about a control element axis (50) and which through the attachments (24, 34) of the transport grip clip (20) and the locking grip lever (32) arranged on either side of the control element axis (50) control the transport grip tip (21) of the transport grip (2) and the locking grip tip (31) of the locking grip (3).

15. Film feed mechanism according to at least one of the preceding claims 1 to 13, characterised in that the control element (5) consists of arms rotating about the control element axis (50) or a disc with the attachments (24, 34) of the transport grip clip (20) and locking grip lever (32).